

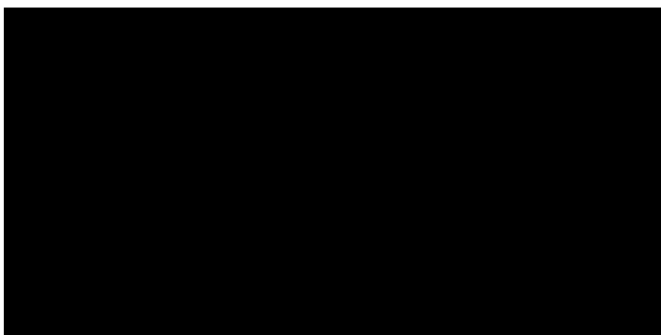
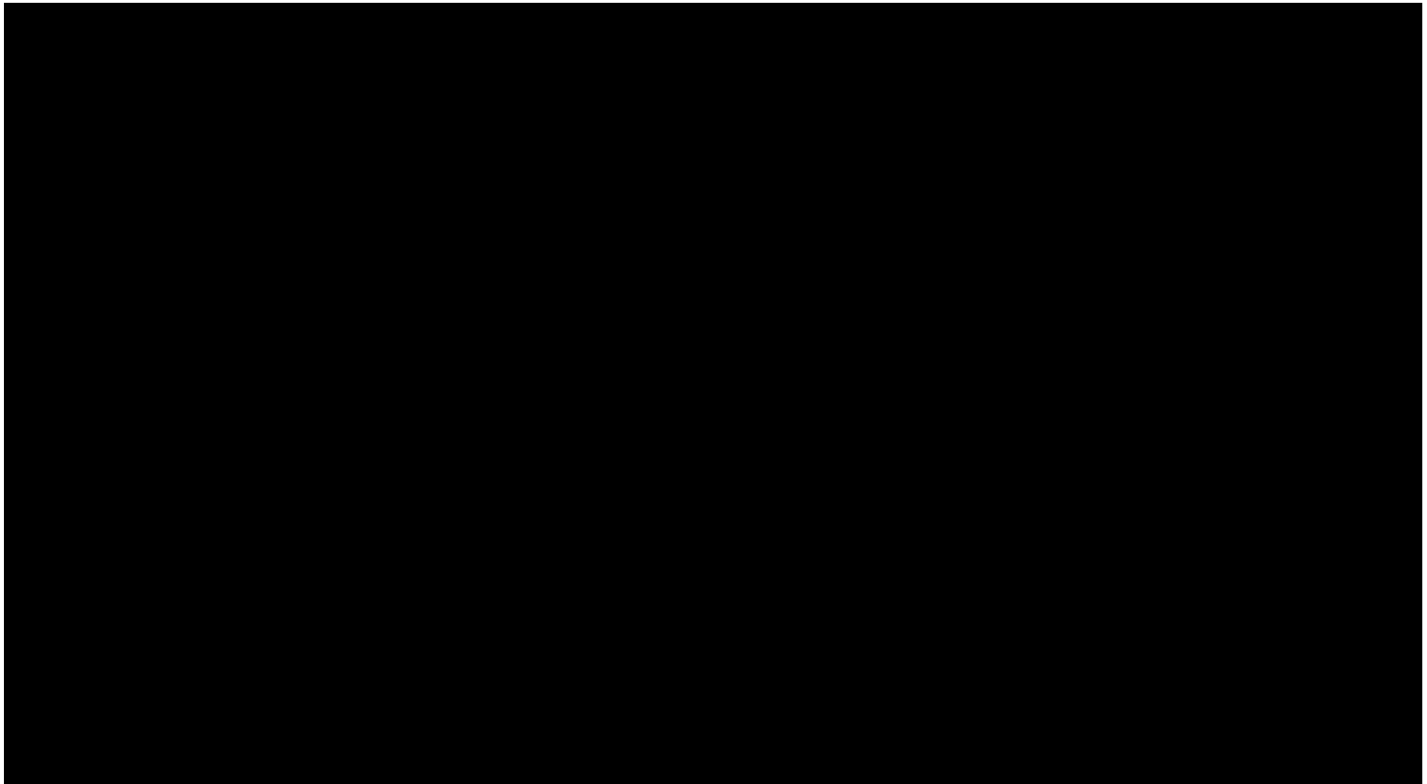
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DATE: 5/16/13



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JACKPILE RECLAMATION PROJECT

Post-Reclamation Long-Term Monitoring Program

APPROVED BY:



Governor, Pueblo of Laguna



Contracting Officer
Bureau of Indian Affairs

DATE: October 20, 1992

DATE: 11/25/92

FILE: LONGTERM.DOC

JACKPILE RECLAMATION PROJECT

POST-RECLAMATION LONG-TERM MONITORING PROGRAM

Prepared by: Reclamation Project Manager for
the Pueblo of Laguna

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1.0. INTRODUCTION

This document is to serve as the management plan for the post-reclamation and long-term monitoring of the Jackpile Mine Site located on the Pueblo of Laguna, NM. The Record of Decision (Department of the Interior, 1986) specified a ten (10) year monitoring period upon completion of the heavy earthmoving and revegetation efforts on the Site. The monitoring period is to serve as a means of evaluating revegetation and stabilization success, ground water recovery, surface water/runoff changes, ambient radon gas changes, controlled grazing and other land uses; it will also provide opportunities to take early corrective actions or repairs needed as a result of erosion or other natural forces.

1.1 Post-Reclamation Project Goals & Requirements

The Jackpile Site is required to be monitored for a ten-year period following completion of the revegetation work. The revegetation effort will provide the long-term erosional stability of the site as well as provide an opportunity for controlled grazing (which is now being recognized as having positive impacts on the long-term health of the vegetation.) The monitoring period will also provide data for an evaluation of other potential land uses and identify/quantify any risks to the land users. It is required, however, that thru the ten year monitoring period that no grazing be allowed in the pit bottoms unless it can be demonstrated there are negligible risks to the users. Ground water recovery and/or changes in water quality in both the deep and alluvial wells will continue, but the frequency of sampling and measurement can be reduced. Reduction of any meteorological data in connection with the ambient radon-222 measurements will be analyzed to model any potential exposures and compare these to the Environmental Impact Statement (EIS) predictions. Reporting by the Pueblo of Laguna (POL) to the various oversight & regulatory agencies (Bureau of Indian Affairs, Bureau of Land Management, etc.) will continue. Corrective actions needed on the site will be identified by the POL and contracted as necessary.

1.2 Post-Reclamation Report Organization

Section 2.0 describes the post-reclamation monitoring organization structure, responsibility, and lines of authority;

Section 3.0 describes the Annual & Field planning procedures;

Section 4.0 describes the methods of contracting monitoring and/or corrective actions, authorization for such work, and certification of completion of same;

Section 5.0 describes the reporting of monitoring activities and required frequency;

Section 6.0 describes the financial resources for the monitoring program, estimated cost & expenditure identification with schedule, reporting of expenditures, fund status, purchasing and contracting procurement procedures;

Section 7.0 describes any administrative controls between the POL and subcontractors and any contingency plans to address unforeseen situations;

Section 8.0 identifies all project plans, documents, records, and reference materials for the monitoring program; it also includes a list of personnel/contacts who have been involved in the Project, their areas of knowledge, and last known address;

2.0 MONITORING MANAGEMENT STRUCTURE

2.1 Managerial Organization

The post-reclamation monitoring will be managed by the Pueblo of Laguna (POL) with the Bureau of Indian Affairs (BIA) or their designated Federal authority providing monitoring oversight. The POL activities may be coordinated by either a Reclamation Technician reporting the Office of the Governor of the POL or thru a contractor reporting to the Office of the Governor. Any legal counsel will be provided by the POL. Management of reclamation funds will be provided by the POL thru the Tribal Treasurer's Office. The POL may contract with a fund manager for assistance, at their discretion. The BIA oversight will be coordinated by the Contracting Officer's Representative (COR) at the Laguna Agency and all reporting by the POL will be thru the Agency with copies to the Contracting Officer (CO) in the Albuquerque Area Office. Copies of reports will also be supplied to the BIA-Environmental Chief in Washington, DC. Technical and managerial personnel from the BIA and Bureau of Land Management (BLM) will support the COR at the Laguna Agency. The POL may, at its discretion, request technical assistance from the BIA and BLM for consultation and data analysis.

The POL has the option of contracting with the Laguna Construction Company, Inc. or another contractor capable of performing the tasks outlined in the next Section. The contractor must be approved by the BIA as demonstrating the technical capabilities to perform the required tasks.

2.2 Responsibilities

The responsibilities of the post-reclamation participants are listed in Table 2.1. In general, the POL will be responsible for monitoring, reporting, planning, fund availability, and any contract management. The POL will approve all plans, budgets and submit to BIA for review and approval.

TABLE 2.1

Jackpile Project--Post-Reclamation Responsibilities

<i>TASK</i>	<i>POL</i>	<i>BIA</i>	<i>SUB-CONTRACTOR</i>
Annual Plan	Prepare	Approve	Perform
Environmental Monitoring	Perform/Verify	Review/Verify	Perform
Regulatory Compliance	Perform/Verify	Review/Verify	Perform
Fund Management	Perform	Review/Approve	
Corrective Action	Prepare	Verify/Approve	Perform
Reporting	Prepare	Review	
Change Orders	Prepare	Review/Approve	Perform
Contractor Invoices	Verify/Approve		Perform
Data Analysis	Perform	Perform	Perform
Health & Safety	Perform/Verify	Review/Verify	Perform
Project Records Management	Perform		
Release of unused Reclamation Funds for use by POL	Perform	Approve	
Release of site areas for other uses	Perform	Approve	

2.3 Authority

The performance of key aspects of the post-reclamation monitoring must be restricted to the appropriate level of management. Therefore, only approvals by the following personnel or their duly authorized representatives will be considered valid.

- 1) Approved plans, corrective actions, finances, change orders, release of unused funds, contractor invoices, and release of site for other uses:
 - Governor as authorized by Tribal Council, POL;
 - Contracting Officer, BIA
- 2) Accept reports on environmental monitoring & regulatory compliance, financial status, corrective actions taken, data analysis/conclusions, health & safety compliance, or other submittals as deemed necessary:
 - Governor as authorized by Tribal Council, POL;
 - Contracting Officer, BIA thru COR, Laguna Agency;
- 3) Approve and issue a field or engineering work/change order which is less than \$50,000;
 - Reclamation Technician or subcontract designee;
- 4) Approve and issue a field or engineering work/change order which is greater than \$50,000;
 - Governor as authorized by Tribal Council, POL;
 - Contracting Officer, BIA;

All participants in the post-reclamation activities recognize that the primary goal is to insure compliance with the Record of Decision requirements and that the Pueblo of Laguna has assumed responsibility for the management of the Project, both actual reclamation work as well as the long-term monitoring. The POL will maintain project management responsibility and will reserve the right to subcontract any functions, should such actions be advantageous. The POL may contract with the BIA or other agencies which may be able to provide technical or other assistance.

The BIA will continue to provide oversight either directly thru its Agency and Area Office personnel or enlist the aid of other Federal Agencies to provide review and other technical assistance.

Release of any information regarding the Project is prohibited without written consent from the Governor, Pueblo of Laguna.

Upon demonstrated compliance with the "release criteria" adopted for the Project, the POL can request release of any remaining reclamation funds for other POL purposes as directed by Tribal Council.

3.0 PLANNING

3.1 Annual Planning Requirements

Annual planning will consist of a written document to be submitted to the POL-Council and will follow the planning/submittal time schedule outlined in the Project Management Plan (Page 3.0-3, revised, September, 1991). The plan will include (but not be limited to) a schedule and estimated costs for:

- Environmental Monitoring
- Regulatory Compliance
- Remedial/Corrective Action Work Packages
- Cash Requirements
- Special Conditions/Changes (if any)
- Applicable design documents
- Potential contingency plans
- Other relevant information.

The Annual Plan will be prepared by the Reclamation Technician and/or the subcontracting entity secured by the POL to manage the post-reclamation monitoring.

3.2 Field Re-planning

When unexpected field conditions are encountered, an adjustment to the project plans must be made to prevent damage or the need for extensive repairs. Timing of such work can be critical and would not require revision of the Annual Plan. The Reclamation Technician or the Contractor may make "minor" changes as deemed necessary up to an amount of <\$50,000. Any work over the \$50,000 will be approved by POL-Council and the BIA Contracting Officer. Since time may be of the essence, lack of BIA approval within five (5) working days will constitute automatic approval.

4.0 WORK MANAGEMENT

4.1 Authorization & Performance for Contractors

Work is authorized for a project year by the POL-Council and approved by BIA. Work authorization will follow the same procedures as outlined in the Project Management Plan (revised September, 1991.) Work will be authorized and accepted by the POL and any subcontractors, respectively and will be done in writing.

4.2 Completion & Certification

Work will be inspected and certified either by the Reclamation Technician or the contractor. Completion and formal "closeout" will follow Project practices already established. Closed out work will be submitted by the POL-Governor's Office to the BIA Contracting Officer for documentation. All work must comply with existing Inspection Plans and Specifications in effect at the time the work is performed.

5.0 POST-RECLAMATION STATUS REPORTING

5.1 Reporting Frequency

An annual report will be prepared by the POL for submittal to BIA within thirty (30) days of the completion of the monitoring year.

5.2 Report Content

The report will include (but not necessarily be limited to) the following:

- Narrative Description of Work Completed;
- Environmental & Regulatory Compliance Status;
- Corrective Action Taken; Work/Change Orders Issued
- Results/Reports of Data Analysis (if any);
- Special Situations/Conditions Encountered;
- Cost/Expenditures Summary
- Release of Areas for Other Uses;
- Other Relevant Information

5.3 Cost Summaries/Disbursements

As a part of the Annual Report, detailed cost summaries will include the following:

- Expenditures for environmental monitoring, regulatory compliance, contractual services, construction services, legal fees, management costs, change order expenditures, and any other long-term costs;
- Cash Flow Summary (incomes and outflows);
- Status of Remaining Reclamation Funds;

5.4 Phase-Out of Reporting Requirements

The need and frequency of certain reporting functions/requirements may be periodically reviewed by the POL. These requirements may be phased out if mutually agreed upon with the BIA Contracting Officer after adequate demonstration that the goals and objectives of the monitoring function are met.

6.0 FINANCIAL SURETY/FUND SOURCES & MANAGEMENT

6.1 Reclamation Funds

Remaining reclamation funds after construction activities are to be the only source of Tribal funding of the monitoring effort. If funds are adequate at the end of the earthmoving and revegetation activities, amounts of \$2,000,000 for ground water mitigation and \$500,000 for monitoring costs are to be set aside from the Reclamation Fund. (See Page 24, Cooperative Agreement-Contract No. MOOC14204811 between the Bureau of Indian Affairs and the Pueblo of Laguna). The ground water mitigation is a contingency fund should ground water recharge levels cause ponding above the originally-estimated elevations and require additional backfill. The \$2.5 million will be placed in an escrow account at a conservative return on investment rate to protect the capital amount. Periodic interest payments on this amount will provide initial funding for the operational costs of the monitoring. If any funds in excess of the required \$2.5 million are available, they can be released to the POL for other uses as deemed appropriate by the POL-Council. If, after the ten-year monitoring period no situations arise requiring corrective action, the remaining funds will be released to the POL for use as deemed appropriate.

6.2 Accounting Procedures

The POL and its contractors are responsible for maintaining financial records in a professional and accurate manner so the records can be effectively audited by independent accountants utilizing generally accepted auditing standards and procedures. All financial records will be consistent with the financial data submitted in the Annual reports. Disagreements between project participants concerning financial issues will be submitted for arbitration.

6.3 Procurement

Procurement procedures will be the same as those identified in Section 7, pp 7.0-3 and 4 of the Project Management Plan with the following change: substitute "LCC" with "LCC or other subcontractor".

6.4 Change Orders

The POL will maintain a log of all work/change orders to include the amounts and a description of the need for the change.

JACKPILE RECLAMATION PROJECT

Post-Reclamation Long-Term Monitoring Program

TABLE 6.0—Estimated Costs & Schedule

DRAFT

Source of Funding: 4% interest earned (\$100,000 per year)
on \$2,500,000 placed in secured investments
as per Project Management Plan (PMP) requirements

Costs in constant 1992 \$\$

ITEM	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 8	YEAR 9	YEAR 10		GRAND TOTAL
Reclamation Tech-salary and benefits	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000		\$250,000
Water Quality Analysis	\$0	\$35,000	\$0	\$0	\$0	\$35,000	\$0	\$0	\$0	\$35,000		\$105,000
Air Quality Analysis	\$2,000	\$2,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,000		\$6,000
Vegetation Analysis	\$5,000	\$5,000	\$5,000	\$0	\$5,000	\$0	\$5,000	\$0	\$5,000	\$0		\$30,000
Aerial Photos	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000		\$30,000
Repairs and Interseeding (as needed)	\$60,000	\$60,000	\$60,000	\$30,000	\$30,000	\$15,000	\$15,000	\$15,000	\$0	\$0		\$285,000
Misc. Costs	\$5,000	\$5,000	\$5,000	\$3,000	\$3,000	\$1,500	\$1,500	\$1,500	\$1,000	\$1,000		\$27,500
Radiation Exposure Study	\$0	\$0	\$0	\$20,000	\$0	\$0	\$0	\$0	\$0	\$0		\$20,000
GRAND TOTALS	\$100,000	\$135,000	\$98,000	\$81,000	\$66,000	\$79,500	\$49,500	\$44,500	\$34,000	\$66,000		\$753,500

7.0 ADMINISTRATIVE CONTROLS

7.1 Administrative Controls

Since the POL has assumed full responsibility for the long-term monitoring, all activities will be administered by the POL through either the Reclamation Technician or a competent subcontractor capable of performing the aforementioned tasks.

7.2 Contingency Identification

The Pueblo of Laguna will inform the BIA in a timely manner of any changes or conditions which may arise causing an alteration of the procedures identified in this document. Full compliance with this Plan would be contingent upon:

- Adequate funds at the end of construction activity;
- Success of initial seeding attempts;
- Rapidity & level of ground water recovery;
- Changes in environmental regulations out of the control of the POL as they could apply to the Jackpile Project site;
- other factors not identifiable at this time (1991);

8.0 PROJECT PLANS/REFERENCE DOCUMENTS

8.1 Soils & Vegetation Evaluation for Final Reclamation (1991)

This documents seed mixtures, seeding techniques, soil sampling, interseeding techniques, vegetation survey techniques, sampling frequency, and release criteria.

8.2 Environmental Monitoring Plan (1989)

Water, air, radiological, and other environmental programs put into place in late 1989. Describes frequency and other details of environmental data gathering.

8.3 Regulatory Compliance Plan (1989)

Identifies any existing or potential regulatory permits required because of reclamation activities at the time of implementation (late 1989). Continued compliance will be contingent upon any unforeseen future changes.

8.4 Health & Safety Plan (1989)

Procedures adopted for reclamation work which should still be followed during the monitoring period to protect any technicians and subcontractors on the site. Specific items can be deleted as deemed necessary by the POL if they no longer apply during the monitoring period.

8.5 Other Project Documents

The following lists other design and historical documents that were developed for the Project or to record the construction activities and are available in either hard copy form or are on personal computer discs.

- Environmental Impact Statement (EIS)
"DRAFT" in 1982; "FINAL" in 1986--Two Volumes
- Construction Inspection Plan
- Final Waste Pile Slope Designs
- Project Management Plans-prior to 1991
- Special Case Designs-Weston Engineering
- Jacobs Engineering Group-Engineering Designs
Volumes 1 thru 11
- Jacobs Engineering Group-Design Drawings
Jackpile, North Pagate, South Pagate,
and General Drawings
- Construction Specifications
- Monthly Project Status Report
(beginning August, 1989)
- Reclamation Project Manager (RPM)
Monthly Report Executive Summaries
- RPM Weekly Update to POL Governor's Office
- RPM Weekly Suspense Log to POL Governor's Office
- Annual Operating Plans
- Quarterly Financial Reports
- Quarterly Environmental Monitoring & Regulatory
Compliance Reports
- Work Package Closeout Documentation

8.5 Other Project Documents cont'd

- Reclamation Technician-Inspection Documents
- Gamma Radiation Measurements-Log
- RGM-2 Radon Measurement-Log
- As-Built Drawings from Laguna Construction Co.
- Weekly Safety Meeting Logs-Laguna Construction Co.
- Weekly Project Meetings-Agendas & Minutes
- Other RPM and Reclamation Technician files contained in
Microsoft Word 5.0
- Other Project Files contained in Lotus 1-2-3
- Cooperative Agreement pursuant to 638 Contract
between POL & BIA;
- Modification #1, #2, & #3 to the Cooperative
Agreement;
- Monthly Progress Photos-35 mm color slides since
November, 1989 to end of Project;

8.6 Project Personnel/Contacts List

<u>NAME</u>	<u>ADDRESS/ ORGANIZATION</u>	<u>AREA OF EXPERTISE OR PROJECT KNOWLEDGE</u>
Lester K. Taylor	Nordhaus, Haltom, Taylor, Taradash, & Frye 500 Marquette Ave. NW Suite 1050 Albuquerque, NM 87102 ph. (505) 243-4275	Legal Counsel, historical; reclamation fund settlement, Cooperative Agreement, incorporation of Laguna Construction Company, water rights;
Chester T. Fernando	Pueblo of Laguna P.O. Box 194 Laguna, NM 87026 ph. (505) 552-6654	Former Pueblo Governor, histori- cal; reclamation fund settlement, initiation of project with Depart- ment of Interior; negotiator with ARCO-Anaconda; Tribal Coun- cil;
Delfino Begay	Pueblo of Laguna P.O. Box 194 Laguna, NM 87026 ph. (505) 552-6654	Former Pueblo Governor; during Mobilization activity;
Conrad W. Lucero	Pueblo of Laguna P.O. Box 194 Laguna, NM 87026 ph. (505) 552-6654	Former Pueblo Governor, histori- cal, chairman of Reclamation Committee-1989; worked at Jackpile Mine during active oper- ations & closure; governor during 1st year of reclamation operation
Harry D. Early	Pueblo of Laguna P.O. Box 194 Laguna, NM 87026 ph (505) 552-6654	Current & past Governor, histori- cal; governor during active mine operations and reclamation work;
Wilmer Lente	Pueblo of Laguna P.O. Box 194 Laguna, NM 87026 ph (505) 552-6654	Former Tribal Interpreter, nego- tiator on settlement fund; served on Reclamation Committee, worked at minesite during oper- ations; historical; worked as a supervisor with the Laguna Con- struction Company during reclama- tion activities;
Victor Sarracino	Pueblo of Laguna P.O. Box 194 Laguna, NM 87026 ph. (505) 552-6654 or (505) 242-0506 or (505) 552-6011	Former Tribal Secretary, Treas- urer, Interpreter; historical; worked at mine site in 1950's & 1960's; Reclamation Technician since 1991;

8.6 Project Personnel/Contacts List *cont'd*

<u>NAME</u>	<u>ADDRESS/ ORGANIZATION</u>	<u>AREA OF EXPERTISE OR PROJECT KNOWLEDGE</u>
Marvin Sarracino	Pueblo of Laguna P.O. Box 194 Laguna, NM 87026 ph. (505) 552-6654 or (505) 242-0506 or (505) 552-6011	Reclamation Technician since 1991; construction inspection, environmental monitoring, bill verification, all Project computer records & documents;
Neal D. Kasper	Laguna Construction Co., Inc. P.O. Box 193 Laguna, NM 87026 ph. (505) 552-6003	President & General Manager since 1988; equipment purchase and company incorporation; company personnel; construction and revegetation activities for reclamation; project start-up & mobilization;
Atiq Tatari	Laguna Construction Co., Inc. P.O. Box 193 Laguna, NM 87026 ph. (505) 552-6003	Company Secretary & Treasurer; formerly Pueblo of Laguna Controller; financial/accounting records; construction billings; served on Reclamation Committee, historical; company incorporation & personnel;
Rudy Lorenzo	Laguna Construction Co., Inc. P.O. Box 193 Laguna, NM 87026 ph. (505) 552-6003	Project Engineer since 1989; surveying, volume checks; work verification and as-built construction records; work scheduling & control; other engineering records;
Wil Hererra	Pueblo of Laguna P.O. Box 194 Laguna, NM 87026 ph. (505) 552-6654	Past Tribal Treasurer & Secretary; historical; Tribal documents & Council resolutions; reclamation fund investments;
Roger L. Baer	US Bureau of Mines P.O. Box 937 Douglas, AK 99824 ph. (907) 364-2111	BIA Engineer-1988 to 1990; Albuquerque Area Office; BLM Technical Proposal Evaluation Committee (TPEC); historical thru design phase with Jacobs Engineering, LCC start-up, and Project mobilization/startup;

8.6 Project Personnel/Constacts List *cont'd*

<u>NAME</u>	<u>ADDRESS/ ORGANIZATION</u>	<u>AREA OF EXPERTISE OR PROJECT KNOWLEDGE</u>
Allen Sedik, PE	Bureau of Indian Affairs Albuquerque Area Office 615 1st Street NW P.O. Box 26567 Albuquerque, NM 87125-6567 ph. (505) 766-2559	BIA Project Engineer since late-1990; provides BIA oversight & reporting to BIA management; present during primary construction/reclamation activities; replaced Roger L. Baer; liaison with BIA-Contracting Officer;
Mark Nelson Raul Portillo Ned Larsen Jim Rodriguez et. al.	Jacobs Engineering Group 5301 Central Avenue NE Albuquerque, NM 87108 ph. (505) 262-1505	contracted to Pueblo of Laguna to provide reclamation design, engineering calculations, specifications, health/safety plans, inspection plans, regulatory/environmental plans, schedules, cost estimates, etc. 1987-1989 (till mobilization);
Mike Bone, PE Nancy Mills Kip Paskewich	Roy F. Weston Engineering, Inc. 6501 Americas Parkway NE Suite 800 Albuquerque, NM 87110 ph. (505) 884-5050	Special case designs for slope stability & erosion controls; designs approved by POL and BIA in 1989-1990; assisted in preparation of Monthly Status Status Report 1/90-4/91; cost & schedule reporting;
Hal Larkin, Norm Shain Alice Fortenbury Paul Sierra	Bradbury-Stamm, Inc. 1217 First Street NW P.O. Box 25027 Albuquerque, NM 87125-0027 ph. (505) 765-1200	Interim Construction Management Contractor (ICMC) thru Project mobilization--8/89 thru 12/89;
Jim Harrison, PE Bill Almas Harold Roberts	Landmark Reclamation, Inc. 5902 McIntyre Street Golden, CO 80403-7430 ph. (303) 279-2981	Construction Services Contractor (with Roy F. Weston Engineering); on-site consulting & project assistance to POL; 1/90 thru 5/91;
Ed Kelley, Ph.D.	Kelley Consultant Services 3620 Wyoming NE # 208-A Albuquerque, NM 87111 ph. (505) 296-0323 or 293-4406	Historical; did doctoral work on reclamation at Jackpile in 1970's; developed final revegetation guidelines approved by POL & BIA in 1991;

8.6 Project Personnel/Contacts List *cont'd*

<u>NAME</u>	<u>ADDRESS/ ORGANIZATION</u>	<u>AREA OF EXPERTISE OR PROJECT KNOWLEDGE</u>
Ron Solimon Jerry Smith	Laguna Industries, Inc. P.O. Box B Laguna, NM 87026 ph. (505) 552-6041 or (505) 247-0551	historical; members of Reclamation Committee thru 1989;
David Sitzler	Bureau of Land Management Department of the Interior 435 Montano NE Albuquerque, NM 87107 ph. (505) 761-4603	historical; member of TPEC; initial design reviews; quarterly radiological inspections; Memorandum of Understanding between BIA & BLM; Mining Engineer; familiar with the development of the Environmental Impact Statement (EIS);
Fred Kellerup	Bureau of Indian Affairs Division of Trust Funds Investments Central Office-West 500 Gold Avenue SW Albuquerque, NM 87102 ph. (505) 766-2975	Investments of Reclamation Funds at BIA-Albuquerque;
George Farris	Environmental Chief Bureau of Indian Affairs 1849 C Street NW Washington, DC 20245 ph (202) 208-4791	historical; Cooperative Agreement; Project approvals; Record of Decision;
Sid Mills	Area Director Bureau of Indian Affairs 615 First Street NW P.O. Box 26567 Albuquerque, NM 87125-6567 ph. (505) 766-3170	historical; Cooperative Agreement; Record of Decision;; EIS;
Monte Jordan Mike Pool et. al.	Bureau of Land Management 435 Montano NW Albuquerque, NM 87107 ph. (505) 766-4603	historical; Cooperative Agreement; Record of Decision; EIS; Public hearings;

8.6 Project Personnel/Contacts List *cont'd*

<u>NAME</u>	<u>ADDRESS/ ORGANIZATION</u>	<u>AREA OF EXPERTISE OR PROJECT KNOWLEDGE</u>
Tom Mann	T R Mann & Associates 5115 Copper NE Albuquerque, NM 87105 ph. (505) 266-7757	aerial photographs of the Project site from the late 1970's thru 1990's; verified construction volumes with semi-annual flights & aerial triangulations; has photo negatives and positives in his archives;
Jim Wood Rick Haaker	TMA/Eberline 5635 Jefferson NE Albuquerque, NM 87109 ph. (505) 345-9931	radiological consulting services for Project; personnel exposures and industrial hygiene; radiological testing on materials to be released from site; calibration of gamma and radon detection equipment;
Art Reust	ph. (505) 345-3461	
Bob Lyle	Dean Witter-Reynolds, Inc. 6400 Uptown NE Albuquerque, NM 87110 ph. (505) 883-6262	reclamation fund investments;
Jim Olsen, Jr., PE	Reclamation Project Manager Pueblo of Laguna P.O. Box 194 Laguna, NM 87026 ph (505) 242-0506 or 552-6011 Wilson & Company 4775 Indian School Rd NE Suite 200 Alb, NM 87110	Project manager since 8/89; project oversight; progress, financial, environmental, and other reporting; design and construction approval; annual plan preparation; historical; worked on-site both during mining & reclamation work; reports to POL Governor; Project Manager at Wilson.
John Biava	Assagai Laboratories, Inc. 7300 Jefferson NE Albuquerque, NM 87109 ph. (505) 345-8964	periodic water sampling and chemical analysis;
Lab Manager	Inter-Mountain Laboratories, Inc. 2506 West Main Street Farmington, NM 87401 ph. (505) 326-4737	soil analyses--1991;

8.6 Project Personnel/Contacts List *cont'd*

<u>NAME</u>	<u>ADDRESS/ ORGANIZATION</u>	<u>AREA OF EXPERTISE OR PROJECT KNOWLEDGE</u>
Chris Sanchez	ARCO Coal Company Bluewater Mill P.O. Box 638 Grants, NM 87020 ph. (505) 876-2211	historical; EIS; performed reclamation work in late 1970's; worked on early reclamation plans for Anaconda Company; fund settlement negotiations;
Steve Alcorn	Re/Spec, Inc. 4775 Indian School NE Suite 300 Albuquerque, NM 87110 ph. (505) 268-2661	subcontractor who set up initial environmental monitoring; phased out mid-1991;
Mike Barnes, PE	New Mexico State Highway Dept. District 6 P.O. Box 2159 Milan, NM 87021 ph. (505) 285-6623	re-location of State Road 279 and agreement with POL for transfer of "old" right-of-way; permit for closure of "new" section for construction purposes 1990-91;
Ed St. Martin	Cadsultant 2609 Christine NE Albuquerque, NM 87112 ph. (505) 299-7038	computer assisted drafting-site progress maps beginning 1991;
Freda Wabnum -or- Yamie Leeds (former Supt.)	Agency Superintendent Bureau of Indian Affairs Laguna Agency Laguna, NM 87026 ph. (505) 552-6001	copies of all Project files, reports, Council actions, etc. that are routed thru Agency prior to submittal to Area Office and Contracting Officer;
Dick Wilson	Bureau of Indian Affairs Division of Energy & Mineral Resources 730 Simms Street, Room 239 Golden, CO 80401 ph (303) 231-5070	Reclamation Project Coordinator, 1987-89; on-loan to POL from BIA for technical assistance during design phase; mem- of TPEC;
Floyd Correa	Correa Enterprises, Inc. 5801 Osuna NE Albuquerque, NM 87109 ph. (505) 888-1527	Former POL Governor; historical; vice chairman of Laguna Construction Company; company incorporation;

8.6 Project Personnel/Contacts List *cont'd*

<u>NAME</u>	<u>ADDRESS/ ORGANIZATION</u>	<u>AREA OF EXPERTISE OR PROJECT KNOWLEDGE</u>
J & J Drilling	1080 Bosque Farms Blvd. Bosque Farms, NM 87068 ph. (505) 869-3281	well service & bailing for water smpling;
Kay James	James Ranch Landscaping, Inc. 33800 Highway 550 N. Durango, CO 81301 ph. (303) 259-0307	revegetation sub-contractor; 1991; discing, mulching, seed drilling, hdroseeding, and crimping;
Bob Keers	Keers Environmental, Inc. 3323 Stanford NE Albuquerque, NM 87107 ph. (505) 888-9525	removed and disposed of asbestos on P-10 Change House water heater in 1991;
Joe Salazar	Joe Salazar Drilling, Inc. 201 San Mateo Road Grants, NM 87020 ph. (505) 287-9511	installation of North & South Pagate pit bottom monitor wells in March, 1992;
L.C. Jones	L.C. Jones Drilling 913 Washington Ave. Grants, NM 87020 ph. (505) 287-8755	installed ground monitoring wells in Oct.-Nov., 1989; historical; extensive drilling experience in Grants & Laguna Mineral Belts;
Jay Webber Ted Aarons	Qualimetrics, Inc. 1165 National Drive Sacramento, CA 95834 ph (916) 928-1000	supplied original weather data recorder in 1990; equipment was defective & they failed to repair it; returned for refund in 1991;
John Portman	Rocket Components Company P.O. Box 1175 Englewood, CO 80150 ph. (303) 936-5197	supplied new weather date recor- in 1991;
Ken King	US Geological Survey Branch of Engineering Geology and Tectonics P.O. Box 25046 Denver Federal Center Denver, CO 80225 ph. (303) 236-1591	geophysicist; studied ground vib- ration/blast damage at Paguate Village 1986-1991;

8.6 Project Personnel/Contacts List

<u>NAME</u>	<u>ADDRESS/ ORGANIZATION</u>	<u>AREA OF EXPERTISE OR PROJECT KNOWLEDGE</u>
Walter Mills	Assistant Secretary US Department of the Interior Washington, DC 20240	Project approvals; Modification #2 and revised (1990) designs;
Calvin Rickel	Southwest Contracting, Inc. P.O. Box 719 Cortez, CO 81321	LCC, Inc. Chairman of the Board; historical since 1987; company formation & incorporation;
Russell Zittlosen	Soil & Water West, Inc. 1700 Southern Blvd. Rio Rancho, NM 87124 ph. (505) 891-9472	Water and soil sampling since 1992;
Bruno Sables	Radon QC 3334 Commercial Ave Northbrook, IL 60062 ph. (708) 205-0110	RGM-2 Radon-222 recording unit calibrations;
	MicroTeck Adelante Industries 4960A Jefferson NE Albuquerque, NM 87109 ph. (505) 883-1102	microfilming of Project and Mine maps, drawings, drill hole sites, utility locations, final mine limits, underground mines/ ore reserves, bluelines, mylars, & sepias;
Landmark Reclamation	(new address) 4901 South Windermere Littleton, CO 80120 ph. (303) 795-5130	same as on previous description
Kevin Montoya	Dean Witter San Francisco Office ph. (415) 693-6000 or (415) 693-6800	financial information on Recla- mation investments and balances; replaced Bob Lyle in early 1994;
	First Security Bank Alana (?) ph. 765-4119	monthly checking account info

JACKPILE RECLAMATION PROJECT

REPORT SCHEDULE

ITEM	FREQUENCY				DUE DATE	RECIPIENTS
	WEEKLY	MONTHLY	QRTLY	ANNUAL		
<i>RPM Project Update</i>	X				Weds.	POL Governor & Staff
<i>RPM Suspense Log</i>	X				Weds.	POL Governor & Staff
<i>Project Meeting-Agenda</i>	X				Thursday	RPM, LCC, BIA Engineer
<i>Project Meeting-Minutes</i>	X				Thursday	RPM, LCC, BIA Engineer
<i>Project Status Report</i>		X			Next 20th	POL, LCC, BIA Eng. & Agency
<i>Status Report-Exec. Summary</i>		X			Next 20th	POL, LCC, BIA Eng. & Agency
<i>Project Financial Summary</i>			X		Next 15th	POL, LCC, BIA Eng. & Agency
<i>Environmental Monitoring & Regulatory Report</i>			X		Next 15th	POL, LCC, BIA Eng. & Agency
<i>Inspection Report Reclamation Techs</i>		X			Next 15th	RPM/POL Status Report
<i>Project Operating Plan</i>				X	Oct. 31	POL, LCC, BIA Eng. & Agency
<i>Project Summary</i>				X	Dec. 15	POL-Governor & Staff
<i>Work Package Closeouts</i>			X		as needed	POL,LCC,BIA-Eng/Agency/CO
<i>Site Aerial Photos</i>				X	May 1 & Oct. 30	(Semi-annually) POL, LCC, BIA-Eng.
<i>Site Progress Photos-Slides</i>		X			Next 10th	RPM Project files
<i>Site Progress Photos-Prints</i>		X			Next 10th	RPM Project Files & Status Rpt.
<i>Computer Progress Maps</i>		X			Next 10th	RPM & Status Report
<i>Post-Reclamation Report</i>				X	Jan. 31	POL & BIA

Post-Reclamation Long Term Monitoring Program

Reporting Structure Options

General Assumptions: POL maintains ultimate responsibility for managing, financing, and all reporting requirements of the Monitoring Program. Use of sub-contracts for certain analytical and technical functions will be needed. Financial assistance and accounting of all functions is provided by Treasurer's Office in all options.

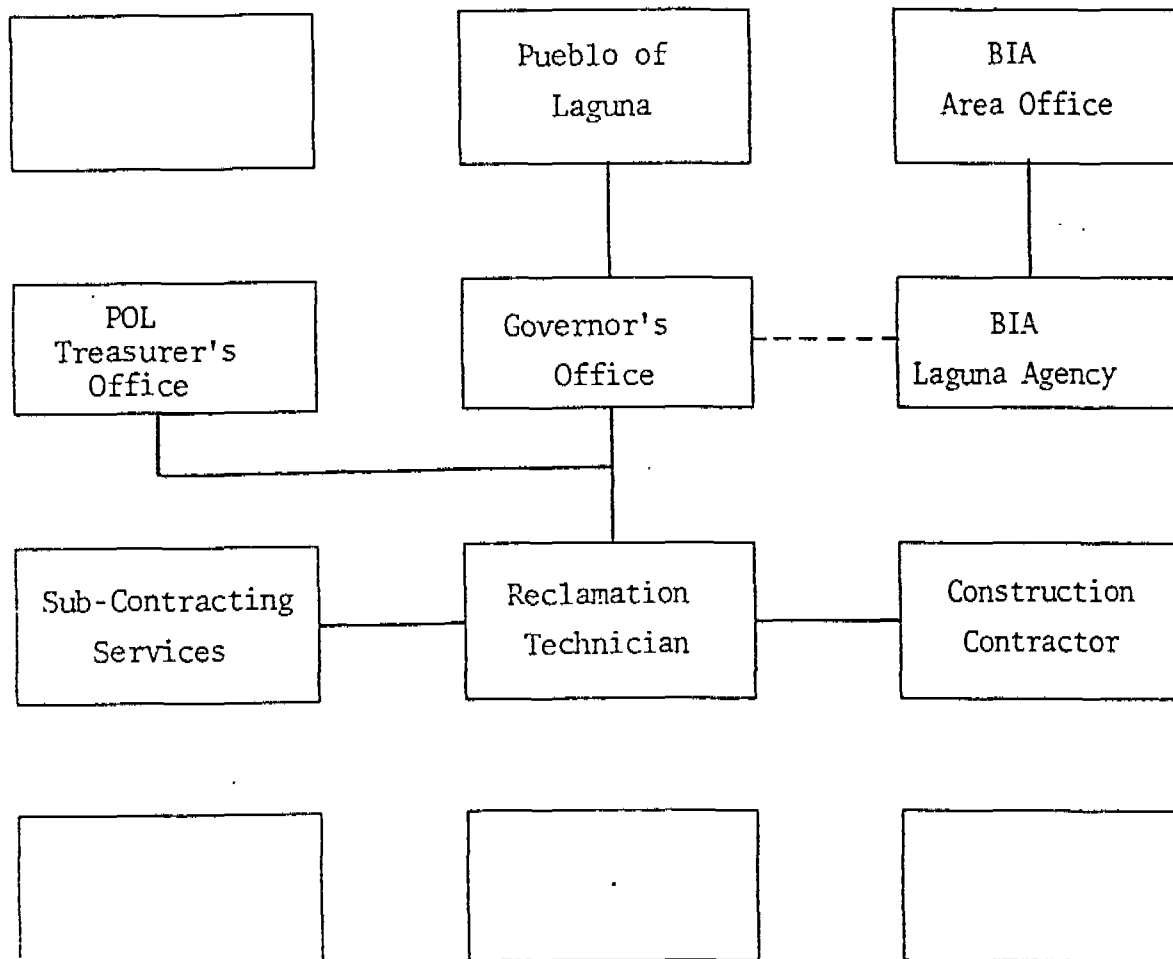
<u>OPTION</u>	<u>REMARKS</u>
A	Reclamation Tech manages subcontracts and any on-site construction/repair activity; Technician reports to Governor's Office; all reports go to BIA-Laguna Agency thru Governor's Office;
B	POL Engineer/Planners office manages Technician and any sub-contracting services; reporting goes thru POL-Administrator's Office directly to BIA-Laguna Agency;
C	Laguna Construction Company performs all monitoring and construction functions and reports to POL-Administrator; reports go to BIA-Agency thru Governor's Office;
D	Same as Option C except LCC reports to Governor's Office directly;

Comments: Other variations of these options are available based upon the POL's desire to administer this program as efficiently and cost effectively as possible.

JACKPILE RECLAMATION PROJECT

Post-Reclamation Long-Term Monitoring Program

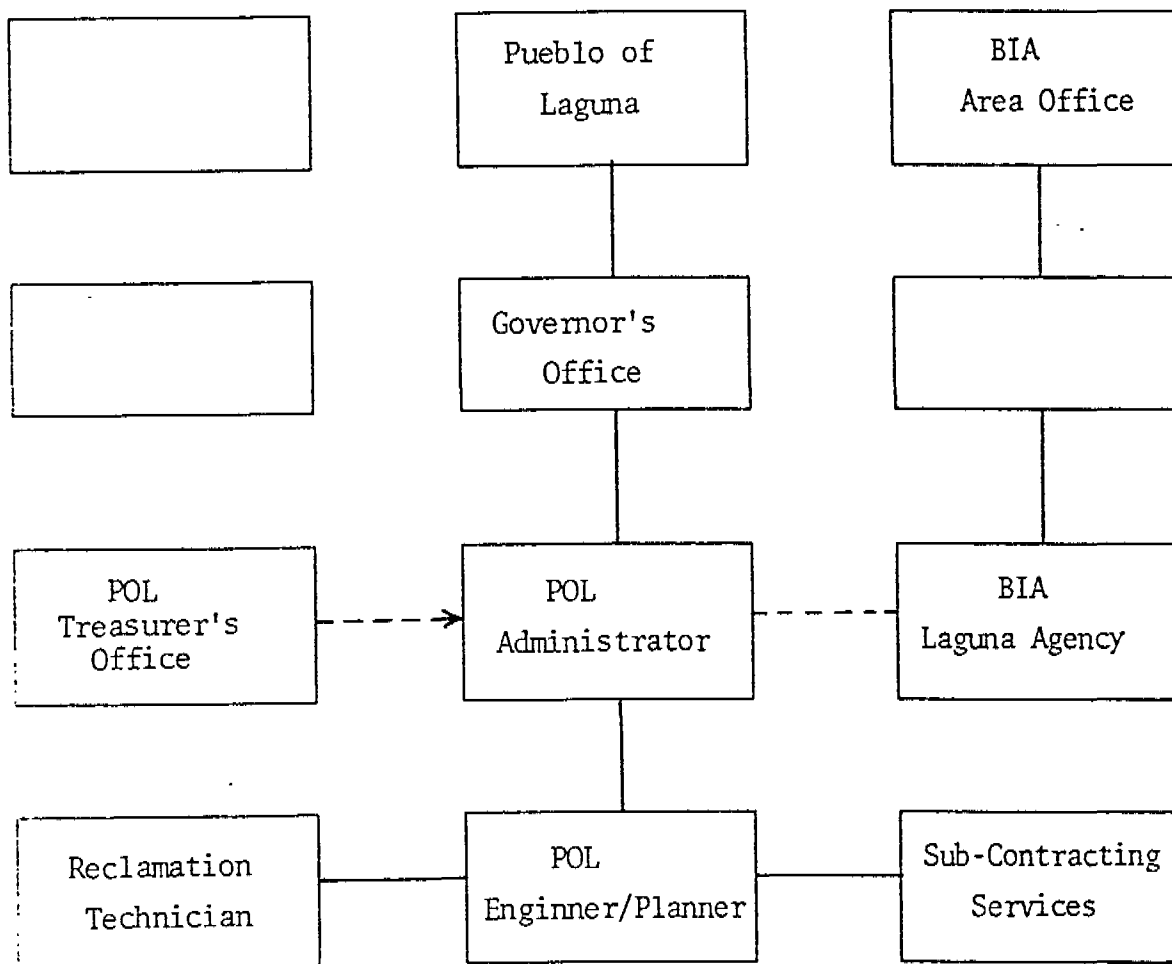
REPORTING STRUCTURE--OPTION ^A _____



JACKPILE RECLAMATION PROJECT

Post-Reclamation Long-Term Monitoring Program

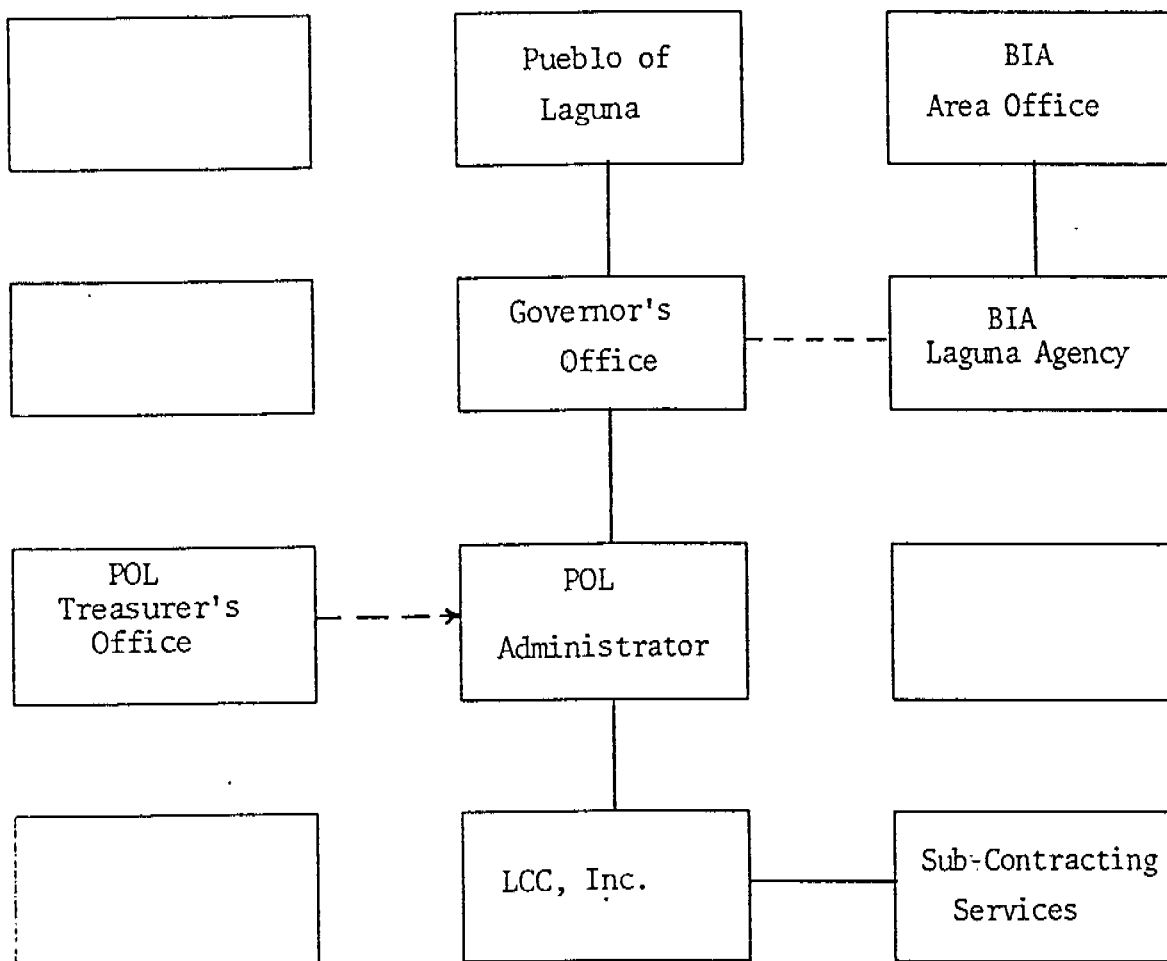
REPORTING STRUCTURE--OPTION B



JACKPILE RECLAMATION PROJECT

Post-Reclamation Long-Term Monitoring Program

REPORTING STRUCTURE--OPTION C



JACKPILE RECLAMATION PROJECT

Post-Reclamation Long-Term Monitoring Program

REPORTING STRUCTURE--OPTION D

